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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/758,888	01/16/2004	Alexander I. Shakhnovich	02090CIP	7005
	590 11/02/2004		EXAMINER	
Cabot Corpora  Law Departmen			FAISON, VE	RONICA F
157 Concord Ro	oad		ART UNIT	PAPER NUMBER
Billerica, MA	01821		1755	
		•	DATE MAILED: 11/02/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/758,888	SHAKHNOVICH				
Office Action Summary	Examiner	Art Unit				
	Veronica F. Faison	1755				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet wit	h the correspondence a	ddress			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a re y within the statutory minimum of thirty will apply and will expire SIX (6) MONT , cause the application to become ABA	ply be timely filed  (30) days will be considered time HS from the mailing date of this	ely. communication.			
Status						
1) Responsive to communication(s) filed on						
	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E						
Disposition of Claims						
4)⊠ Claim(s) <u>1-36</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw						
5)⊠ Claim(s) <u>25-36</u> is/are allowed.	The month of the delication.					
6)⊠ Claim(s) <u>1-8 and 16-22</u> is/are rejected.						
7)⊠ Claim(s) <u>9-15,23 and 24</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers	·					
9)☐ The specification is objected to by the Examiner	_					
10)☐ The drawing(s) filed on is/are: a)☐ acce		u the Evenines				
Applicant may not request that any objection to the o						
			ED 4 4047-0			
Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Example 11.						
	ammer. Note the attached	Onice Action of form P	10-152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign ∣	priority under 35 U.S.C. §	119(a)-(d) or (f).				
a) All b) Some * c) None of:						
<ol> <li>Certified copies of the priority documents</li> </ol>	have been received.					
2. Certified copies of the priority documents have been received in Application No						
<ol><li>Copies of the certified copies of the priori</li></ol>	ty documents have been re	eceived in this National	Stage			
application from the International Bureau						
* See the attached detailed Office action for a list of	of the certified copies not re	eceived.				
Attachment(s)						
1) Notice of References Cited (PTO-892)		mmary (PTO-413)				
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> </ul>		Mail Date rmal Patent Application (PTC	) <sub>-</sub> 152)			
Paper No(s)/Mail Date	6) Other:		. 102)			
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office Acti	ion Summary	Part of Paper No./Mail Da	ate 20041029			

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### **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-8, 16-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Platman et al (US Patent 5,246,494).

Platman et al teach a mixed couple azo pigment prepared from 30 to 70 percent of two or more diazonium components, at least one derived from a monoaryl amine and an organic coupling component, said pigment containing one or more COOH or SO<sub>3</sub>H groups or ester (abstract and col. 3 line 44-col. 4 line 29). The mixed coupled azo pigment are prepared by initially diazotizing a mixture of two or more aromatic amine compounds to form a mixture of diazonium salts and thereafter coupling the mixture of diazonium salts with a coupling component (col. 4 lines 40-45). The reference further teaches that the aromatic amines may also contain one or two acid groups which may be –COOH, –SO3H, or the esters or amides or alkali or alkaline earth metal salts thereof (col. 5 lines 28-33). The mixtures comprising at least two diazonium components used in preparing the pigments may be prepared by diazotizing a mixture of aromatic amines, or the mixture can be prepared separately diazotizing individual amines and combining the diazotized amines. The diazotization of the aromatic amines may be carried out in the manner known through the use of alkali metal nitrites or lower alkyl nitrites together

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with an adequately strong acid (col. 6 lines 34-50). The coupling component may be any compound capable of coupling the diazonium components such as pyrazolone (col. 6 lines 59-68). Platman et al fails to specifically exemplify the use of azo coupler as claimed by applicant. Therefore, it would have been obvious to one of ordinary skill in the art to use the specific azo coupler as claimed by applicant as Platman et al also discloses the use of azo coupler but shows no example incorporating them.

## Allowable Subject Matter

Claims 9-15, 23-24 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: The references alone or in combination fail to teach the following:

- 1. the specific azo couplers
- 2. a dispersant having the formula set forth in claim 23.

Claims 25-36 are allowed.

The following is an examiner's statement of reasons for allowance: The references alone or in combination fail to teach the following:

1. ink jet ink comprising a dispersant having the formula set forth in claim 25.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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#### Conclusion

The remaining references listed on forms 892 and 1449 have been reviewed by the Examiner and are considered to be cumulative to or less material than the prior art references relied upon in the above rejections.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Veronica F. Faison whose telephone number is 571-272-1366. The examiner can normally be reached on Monday-Thursday and alternate Fridays 8 am to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Bell can be reached on 571-272-1362. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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